

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date March 7, 2016	EPA Reg No./File Symbol 89459-19	Page 1 of 21
Applicant's/Registrant's Name & Address Central Garden & Pet Company 1501 East Woodfield Road, Suite 200 West Schaumburg, IL 60173	Product Prentox Piperonyl Butoxide Technical	

Ingredient: Piperonyl butoxide (CAS No. 51-03-6)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1550	Product identity and composition	00149079 49094201 49106001	Piperonyl Butoxide Task Force Central Garden & Pet Company Central Garden & Pet Company	OWN OWN OWN	
830.1600	Description of Materials Used to Produce the Product	00149079 49094201 49106001	Piperonyl Butoxide Task Force Central Garden & Pet Company Central Garden & Pet Company	OWN OWN OWN	
830.1620	Description of the Production Process	00149079 49094201 49106001	Piperonyl Butoxide Task Force Central Garden & Pet Company Central Garden & Pet Company	OWN OWN OWN	
830.1650	Description of the Formulation Process				Not required
830.1670	Discussion of Formation of Impurities	00149079 49094201 49106001	Piperonyl Butoxide Task Force Central Garden & Pet Company Central Garden & Pet Company	OWN OWN OWN	
830.1700	Preliminary Analysis	44274301 49094202 49106002	Central Garden & Pet Company Central Garden & Pet Company Central Garden & Pet Company	OWN OWN OWN	
830.1750	Certified Limits	44274301 49094201 49106001	Central Garden & Pet Company Central Garden & Pet Company Central Garden & Pet Company	OWN OWN OWN	
830.1800	Enforcement Analytical Method	44274301 49094201	Central Garden & Pet Company Central Garden & Pet Company	OWN OWN	
830.6302	Color	44274302	Central Garden & Pet Company	OWN	
830.6303	Physical State	44274302	Central Garden & Pet Company	OWN	

Signature



Name and Title

Janelle Kay, Agent

Date

Mar. 7, 2016

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Applicant's/Registrant's Name & Address Central Garden & Pet Company 1501 East Woodfield Road, Suite 200 West Schaumburg, IL 60173	Product Prentox Piperonyl Butoxide Technical	

Ingredient: Piperonyl butoxide (CAS No. 51-03-6)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6304	Odor	44274302	Central Garden & Pet Company	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	44274302	Central Garden & Pet Company	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility	44274302	Central Garden & Pet Company	OWN	
830.6315	Flammability	44274302	Central Garden & Pet Company	OWN	
830.6316	Explosibility	44274302	Central Garden & Pet Company	OWN	
830.6317	Storage Stability	44544901	Central Garden & Pet Company	OWN	
830.6319	Miscibility				Not required
830.6320	Corrosion Characteristics	44274302	Central Garden & Pet Company	OWN	
830.6321	Dielectric Breakdown Voltage				
830.7000	pH	44274302	Central Garden & Pet Company	OWN	
830.7050	UV/Visible Absorption	44274302	Central Garden & Pet Company	OWN	
830.7100	Viscosity	44274302	Central Garden & Pet Company	OWN	
830.7200	Melting Point/Melting Range				See 830.7220
830.7220	Boiling Point/Boiling Range	44274302	Central Garden & Pet Company	OWN	
830.7300	Density/Relative Density/Bulk Density	44274302	Central Garden & Pet Company	OWN	
830.7370	Dissociation Constants in Water	44274302	Central Garden & Pet Company	OWN	
830.7520	Particle size, fiber length, and diameter distribution				Not required
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	41198202 40954001	Piperonyl Butoxide Task Force Central Garden & Pet Company	OWN OWN	
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7550

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	41198201	Piperonyl Butoxide Task Force	OWN	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure				Not required
N/A	Henry's Law Constant	42490204 42015801	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OWN OWN	
870.1100	Acute oral toxicity	41969001	Piperonyl Butoxide Task Force	OWN	
870.1200	Acute dermal toxicity	41969002	Piperonyl Butoxide Task Force	OWN	
870.1300	Acute inhalation toxicity	41990001	Piperonyl Butoxide Task Force	OWN	
870.2400	Eye irritation	41969004	Piperonyl Butoxide Task Force	OWN	
870.2500	Skin irritation	41969003	Piperonyl Butoxide Task Force	OWN	
870.2600	Skin sensitization	41969005 48151001	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II	OWN OWN	
GENERIC DATA REQUIREMENTS					
850.2100	Acute Avian Oral Toxicity	41969008 49603702	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II	OWN OWN	See endnote ¹
850.2200	Acute Avian Dietary Toxicity	41969006 41969007	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OWN OWN	See endnote ²

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Applicant's/Registrant's Name & Address Central Garden & Pet Company 1501 East Woodfield Road, Suite 200 West Schaumburg, IL 60173			Product Prentox Piperonyl Butoxide Technical		
Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2400	Wild Mammal Toxicity	41969001 00161118	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OWN OWN	See endnote ³
850.2300	Avian Reproductive Toxicity	43876301 43876302	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN	See endnote ⁴
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	42540302 42540303 49111404	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II	OWN OWN OWN	See endnote/ Waived ⁵
SS-1153	Freshwater Fish Toxicity (synergism)	48451801 49135001 49430201	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN GAP	See endnote ⁶
850.1010	Freshwater Invertebrate Toxicity	42540301 49066501 49461001 49521401 49521402	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN OWN	See endnote ⁷
SS-1184	Freshwater Amphipod Toxicity (synergism)	48451801 49135001 49066501 49065504 49430201	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN OWN	

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	42540304	Piperonyl Butoxide Task Force	OWN	See endnote ⁸
		42540305	Piperonyl Butoxide Task Force	OWN	
		42540306	Piperonyl Butoxide Task Force	OWN	
		43901801	Piperonyl Butoxide Task Force II	OWN	
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	42335902	Piperonyl Butoxide Task Force	OWN	See endnote ⁹
		42538802	Piperonyl Butoxide Task Force	OWN	
		43311301	Piperonyl Butoxide Task Force II	OWN	
		42538801	Piperonyl Butoxide Task Force	OWN	
		42335901	Piperonyl Butoxide Task Force	OWN	
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	47860901	Piperonyl Butoxide Task Force II	OWN	See endnote ¹⁰
		49193301	Piperonyl Butoxide Task Force II	OWN	
		42538801	Piperonyl Butoxide Task Force	OWN	
		42335901	Piperonyl Butoxide Task Force	OWN	
850.1400	Fish Early Life Stage (Freshwater)	43300301	Piperonyl Butoxide Task Force II	OWN	See endnote ¹¹
		42335901	Piperonyl Butoxide Task Force	OWN	
		42538801	Piperonyl Butoxide Task Force	OWN	
850.1400	Fish Early Life Stage (Saltwater)	49603701	Piperonyl Butoxide Task Force II	OWN	See endnote ¹²
		42335901	Piperonyl Butoxide Task Force	OWN	
		42538801	Piperonyl Butoxide Task Force	OWN	
850.1500	Life Cycle Fish	49031801	Piperonyl Butoxide Task Force II	OWN	See endnote ¹³
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	42404401	Piperonyl Butoxide Task Force	OWN	See endnote ¹⁴
		42538803	Piperonyl Butoxide Task Force	OWN	
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1735	Whole Sediment: Acute Freshwater Invertebrates	47860905 48145401 49180201	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN	See endnote ¹⁵
850.1740	Whole Sediment: Acute Marine Invertebrates	47860905 48145401 49180201 49689601	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN	See endnote ¹⁶
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine	47860905 48145401 49066502 49066503 49180201 49689601	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN OWN OWN	See endnote ¹⁷
850.3020	Honey Bee Acute Contact Toxicity	41969009 49296201	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II	OWN OWN	See endnote ¹⁸
850.3030	Honeybee Toxicity of Residues on Foliage				Not required
850.3040	Field Testing for Pollinators				Not required
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	49418801	Piperonyl Butoxide Task Force II	OWN	See endnote ¹⁹
870.3100	90-Day Oral: Rodent	43376305 43376306 43376307	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	PL PL PL	
870.3150	90-Day Oral: Non-Rodent	42926001	Piperonyl Butoxide Task Force II	OWN	

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3200	21/28-Day Dermal Toxicity	42218201	Piperonyl Butoxide Task Force	OWN	See endnote ²⁰
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity	42269601 42274701 42477101	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OWN OWN OWN	See endnote ²¹
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity	49111402 49362801	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN	Waived ²²
83-1(b)	Chronic Toxicity – Dog	42926001 42926002 43992201	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN	See endnote ²³
870.4100	Chronic Toxicity	42920201 42839601 40323701 42807201 42839601	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN OWN	See endnote ²⁴

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.4200	Carcinogenicity	40323701 42511701 42641301 42650201 42807201 42839601 42978001 42903701 42920201 43376304 46605801	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II	OWN OWN OWN OWN OWN OWN OWN OWN OWN PL OWN	See endnote ²⁵
870.3700	Reproduction/Developmental Toxicity Screening Test	42586901 42380801 43376303 00157157	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force McLaughlin Gormley King Company	OWN OWN PL OLD	See endnote ²⁶
870.3800	2-Generation Reproduction: Rat	00161118 43376301 43376302	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OWN PL PL	See endnote ²⁷
870.6300	Developmental Neurotoxicity Study				Not required
870.5100	Bacterial Reverse Mutation Test	00143499 41969010 42004502	McLaughlin Gormley King Company Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OLD OWN OWN	See endnote ²⁸

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5300, 830.5375	<i>In vitro</i> Mammalian Cell Assay	00147693 00143499 00149495 43013801 42004501	McLaughlin Gormley King Company McLaughlin Gormley King Company Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force	OLD OLD OWN OWN OWN	See endnote ²⁹
870.5385, 870.5395, 870.5450; 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	42004503 41969011	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OWN OWN	See endnote ³⁰
870.7485	Metabolism and Pharmacokinetics	45582701 00152568 41998401 41998701	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OWN OWN OWN OWN	See endnote ³¹
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration	46039601	Piperonyl Butoxide Task Force II	OWN	
870.7800	Immunotoxicity	49111401	Piperonyl Butoxide Task Force II	OWN	Waived ³²
875.1100	Dermal Exposure – Outdoor	46260901 46260902 46260903 46694701	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN	
875.1200	Dermal Exposure - Indoor	46260901 46260902 46260903 46694701	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN	

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1300	Inhalation Exposure – Outdoor	46260901	Piperonyl Butoxide Task Force II	OWN	
		46260902	Piperonyl Butoxide Task Force II	OWN	
		46260903	Piperonyl Butoxide Task Force II	OWN	
		46694701	Piperonyl Butoxide Task Force II	OWN	
875.1400	Inhalation Exposure - Indoor	46260901	Piperonyl Butoxide Task Force II	OWN	
		46260902	Piperonyl Butoxide Task Force II	OWN	
		46260903	Piperonyl Butoxide Task Force II	OWN	
		46694701	Piperonyl Butoxide Task Force II	OWN	
875.1500	Biological Monitoring	46260901	Piperonyl Butoxide Task Force II	OWN	
		46260902	Piperonyl Butoxide Task Force II	OWN	
		46260903	Piperonyl Butoxide Task Force II	OWN	
		46694701	Piperonyl Butoxide Task Force II	OWN	
875.1600	Data Reporting and Calculations	46260901	Piperonyl Butoxide Task Force II	OWN	
		46260902	Piperonyl Butoxide Task Force II	OWN	
		46260903	Piperonyl Butoxide Task Force II	OWN	
		46694701	Piperonyl Butoxide Task Force II	OWN	
875.1700	Product Use Information	44460801	Piperonyl Butoxide Task Force II	OWN	
		45921701	Piperonyl Butoxide Task Force II	OWN	
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues				Not required ³³
875.2200	Soil Residue Dissipation		Outdoor Residential Exposure Task Force	OWN	
875.2300	Indoor Surface Residue Dissipation		Non-Dietary Exposure Task Force	OWN	

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400	Dermal Exposure		Outdoor Residential Exposure Task Force	OWN	
875.2500	Inhalation Exposure		Outdoor Residential Exposure Task Force	OWN	
875.2600	Biological Monitoring		Outdoor Residential Exposure Task Force	OWN	
875.2700	Product Use Information	44460801 45921701	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN	
875.2800	Descriptions of Human Activity		Outdoor Residential Exposure Task Force	OWN	
875.2900	Data Reporting and Calculations		Outdoor Residential Exposure Task Force	OWN	
875.3000	Nondietary Ingestion Exposure		Non-Dietary Exposure Task Force	OWN	
201-1	Droplet Size Spectrum				Reserved ³⁴
202-1	Droplet Size Spectrum				Reserved ³⁴
890 series	Endocrine Disruptor Data	48702501	Piperonyl Butoxide Task Force II	OWN	
890.1100	Amphibian Metamorphosis (Frog)	48673101 49606701	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN	See endnote ³⁵
890.1150	Androgen Receptor Binding (Rat Prostate)	48618801	Piperonyl Butoxide Task Force II	OWN	See endnote ³⁶
890.1200	Aromatase (Human Recombinant)	48618802	Piperonyl Butoxide Task Force II	OWN	See endnote ³⁷
890.1250	Estrogen Receptor Binding	48618803	Piperonyl Butoxide Task Force II	OWN	See endnote ³⁸

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Applicant's/Registrant's Name & Address Central Garden & Pet Company 1501 East Woodfield Road, Suite 200 West Schaumburg, IL 60173	Product Prentox Piperonyl Butoxide Technical	

Ingredient: Piperonyl butoxide (CAS No. 51-03-6)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
890.1300	Estrogen Receptor Transcriptional Activation Assay	48618804	Piperonyl Butoxide Task Force II	OWN	See endnote ³⁹
890.1350	Fish Short-Term Reproduction	48687701	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴⁰
890.1400	Hershberger (Rat)	48618805	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴¹
890.1450	Female Pubertal (Rat)	48618806	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴²
890.1500	Male Pubertal (Rat)	48618806	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴³
890.1550	Steroidogenesis	48618807	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴⁴
890.1600	Uterotrophic (Rat)	48618808	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴⁵
850.4100	Tier 1: Seedling Emergence	48874207	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴⁶
850.4150	Tier 1: Vegetative Vigor	48874202	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴⁷
850.4400, 850.4550	Tier 1: Aquatic Plant Growth	48874201 48874203 48874204 48874205 48874206 49111405 49111406 49303101 49311701 49314501 49320901	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN OWN OWN OWN OWN OWN OWN OWN	See endnote/ Waived ⁴⁸
850.4100	Tier 2: Seedling Emergence	48874207	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴⁶
850.4150	Tier 2: Vegetative Vigor	48874202	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴⁷

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4400, 850.4550	Tier 2: Aquatic Plant Growth	48874201	Piperonyl Butoxide Task Force II	OWN	See endnote/ Waived ⁴⁸
		48874203	Piperonyl Butoxide Task Force II	OWN	
		48874204	Piperonyl Butoxide Task Force II	OWN	
		48874205	Piperonyl Butoxide Task Force II	OWN	
		48874206	Piperonyl Butoxide Task Force II	OWN	
		49111405	Piperonyl Butoxide Task Force II	OWN	
		49111406	Piperonyl Butoxide Task Force II	OWN	
		49303101	Piperonyl Butoxide Task Force II	OWN	
		49311701	Piperonyl Butoxide Task Force II	OWN	
		49314501	Piperonyl Butoxide Task Force II	OWN	
		49320901	Piperonyl Butoxide Task Force II	OWN	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
835.2120	Hydrolysis	43595601	Piperonyl Butoxide Task Force II	OWN	See endnote ⁴⁹
		45674207	Piperonyl Butoxide Task Force	OWN	
		42374101	Piperonyl Butoxide Task Force	OWN	
		42010005	Piperonyl Butoxide Task Force	OWN	
835.2240	Photodegradation in Water	43637201	Piperonyl Butoxide Task Force II	OWN	See endnote ⁵⁰
		45674205	Piperonyl Butoxide Task Force	OWN	
		42606302	Piperonyl Butoxide Task Force	OWN	
		42374102	Piperonyl Butoxide Task Force	OWN	
		42010006	Piperonyl Butoxide Task Force	OWN	

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2410	Photodegradation in Soil	43720801	Piperonyl Butoxide Task Force II	OWN	See endnote ⁵¹
		42927601	Piperonyl Butoxide Task Force	OWN	
		42606301	Piperonyl Butoxide Task Force	OWN	
		42490201	Piperonyl Butoxide Task Force	OWN	
		42010004	Piperonyl Butoxide Task Force	OWN	
835.2370	Photodegradation in Air				Waived ⁵²
835.4100	Aerobic Soil Metabolism	43806401	Piperonyl Butoxide Task Force II	OWN	See endnote ⁵³
		42490202	Piperonyl Butoxide Task Force	OWN	
		42029401	Piperonyl Butoxide Task Force	OWN	
		49091702	Endura S.p.A.	PER	
		49103002	Piperonyl Butoxide Task Force II	OWN	
835.4200	Anaerobic Soil Metabolism	42010003	Piperonyl Butoxide Task Force	OWN	Waived ⁵⁴
		42374103	Piperonyl Butoxide Task Force	OWN	
835.4300	Aerobic Aquatic Metabolism	45674204	Piperonyl Butoxide Task Force	OWN	See endnote ⁵⁵
		43803401	Piperonyl Butoxide Task Force II	OWN	
		42374105	Piperonyl Butoxide Task Force	OWN	
		42010002	Piperonyl Butoxide Task Force	OWN	
		49091701	Endura S.p.A.	PER	
		49103001	Piperonyl Butoxide Task Force II	OWN	
835.4400	Anaerobic Aquatic Metabolism	49751301	Piperonyl Butoxide Task Force II	OWN	See endnote ⁵⁶
		45674206	Piperonyl Butoxide Task Force	OWN	
		43836501	Piperonyl Butoxide Task Force II	OWN	
		42374104	Piperonyl Butoxide Task Force	OWN	
		42010001	Piperonyl Butoxide Task Force	OWN	

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.1230, 835.1240	Leaching/Adsorption/Desorption	43673801	Piperonyl Butoxide Task Force II	OWN	See endnote ⁵⁷
		43673802	Piperonyl Butoxide Task Force II	OWN	
		42526301	Piperonyl Butoxide Task Force II	OWN	
		42490203	Piperonyl Butoxide Task Force	OWN	
		41820301	Piperonyl Butoxide Task Force	OWN	
835.1410	Volatility – Laboratory				Waived ⁵⁸
835.8100	Volatility – Field				Waived ⁵⁹
835.6100	Soil Field Dissipation Study	43834801	Piperonyl Butoxide Task Force II	OWN	See endnote ⁶⁰
		42900401	Piperonyl Butoxide Task Force	OWN	
		42745501	Piperonyl Butoxide Task Force II	OWN	
835.6200	Aquatic Sediment Field Dissipation Study	43834802	Piperonyl Butoxide Task Force II	OWN	See endnote ⁶¹
		43125701	Piperonyl Butoxide Task Force II	OWN	
835.6300	Forest Field Dissipation Study				Reserved ⁶²
835.6400	Combination and Tank Mixes				Reserved ⁶³
835.7100	Ground Water Monitoring				Reserved ⁶⁴
850.6100	Environmental Chemistry Methods	49480801	Piperonyl Butoxide Task Force II	OWN	See endnote ⁶⁵
		49592901	Piperonyl Butoxide Task Force II	OWN	
SS-1065	POTW Treatability Study			GAP	See endnote ⁶⁶

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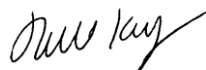
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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Plants	43227701 43227702 43227703 43832901 43832902 43832903 43946801 43946802 44082001	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN OWN OWN OWN OWN OWN	See endnote ⁶⁷
860.1300	Nature of the Residue: Livestock	42032301 42032302 43643201 43712601 45877305 49064001	Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN OWN OWN OWN OWN	See endnote ⁶⁸
860.1850	Confined Rotational Crops	48874101 49111403	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN	See endnote ⁶⁹
860.1340	Residue Analytical Methods	43971301 45674201 45674202 45674203	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OWN OWN OWN OWN	See endnote ⁷⁰
860.1360	Multiresidue Method	44604201	Piperonyl Butoxide Task Force	OWN	See endnote ⁷¹
860.1380	Storage Stability	47860902 47860903	Piperonyl Butoxide Task Force II Piperonyl Butoxide Task Force II	OWN OWN GAP	See endnote ⁷²

Signature



Name and Title

Janelle Kay, Agent

Date

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Applicant's/Registrant's Name & Address Central Garden & Pet Company 1501 East Woodfield Road, Suite 200 West Schaumburg, IL 60173	Product Prentox Piperonyl Butoxide Technical	

Ingredient: Piperonyl butoxide (CAS No. 51-03-6)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	43869701	Piperonyl Butoxide Task Force II	OWN	See endnote ⁷³
		43869702	Piperonyl Butoxide Task Force II	OWN	
		44166202	Piperonyl Butoxide Task Force II	OWN	
		44166203	Piperonyl Butoxide Task Force II	OWN	
		45877302	Piperonyl Butoxide Task Force II	OWN	
		45877303	Piperonyl Butoxide Task Force II	OWN	
		45877304	Piperonyl Butoxide Task Force II	OWN	
		49064002	Piperonyl Butoxide Task Force II	OWN	
		49064003	Piperonyl Butoxide Task Force II	OWN	
		49064004	Piperonyl Butoxide Task Force II	OWN	
		49064005	Piperonyl Butoxide Task Force II	OWN	
860.1400	Nature and Magnitude of the Residue in Potable Water	43125701	Piperonyl Butoxide Task Force II	OWN	Reserved ⁷⁴
860.1400	Magnitude of the Residue in Fish	43125701	Piperonyl Butoxide Task Force II	OWN	Reserved ⁷⁴
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water	43125701	Piperonyl Butoxide Task Force II	OWN	Reserved ⁷⁴

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Ingredient: Piperonyl butoxide (CAS No. 51-03-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1460	Magnitude of the Residue in Food Handling Establishments	00081020 00081021 00085914 00085916 41998201 41998202 41998203 41998204 41998205 42009801 42009802 42009803 42009804 42009805	McLaughlin Gormley King Company McLaughlin Gormley King Company McLaughlin Gormley King Company McLaughlin Gormley King Company Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force Piperonyl Butoxide Task Force	OLD OLD OLD OLD OWN OWN OWN OWN OWN OWN OWN OWN OWN OWN	See endnote ⁷⁵
860.1500	Magnitude of the Residue in Plants: Mushrooms	49803301	IR-4	PL	
860.1900	Field Rotational Crops				Waived ⁷⁶

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Endnotes for Data Matrix for Prentox Piperonyl Butoxide Technical

- ¹ **850.2100** – MRID 41969008 was considered acceptable and satisfies the data requirement as per the Dec. 13, 2010 Environmental Fate and Ecological Risk Assessment Problem Formulation in Support of Registration Review for Piperonyl Butoxide (DP Barcode D378420) (Problem Formulation), except passerine data. MRID 49603702 was submitted to satisfy passerine data requirements. The Jan. 4, 2005 Screening Ecological Risk Assessment for the Reregistration of Piperonyl Butoxide Insecticide Synergist (DP Barcode D296882) (RED Eco RA) also classified MRID 4196008 as acceptable.
- ² **850.2200** – The studies cited were considered acceptable and satisfy the data requirement as per the Problem Formulation and RED Eco RA.
- ³ **850.2400** – The studies cited were considered acceptable and satisfy the data requirement as per the Problem Formulation.
- ⁴ **850.2300** – The studies cited were considered acceptable and satisfy the data requirement as per the Problem Formulation and RED Eco RA; MRID 43876301 was also listed in the Problem Formulation.
- ⁵ **850.1075** – MRID 42540302 and 42540303 were considered acceptable and satisfy the data requirement as per the Problem Formulation and RED Eco RA. In addition, EPA waived the requirement to submit TEP data that were required in registration review based on MRID 49111404 as per the April 10, 2014 Clarification of Data Needs for Piperonyl Butoxide (PBO) Registration Review including Response to Three Data Waivers and a Submitted Passerine Dietary Protocol (DP Barcode 412497, 417057) (Clarification of Data Needs).
- ⁶ **SS-1153** – The Piperonyl Butoxide Task Force II is currently developing data to satisfy this data requirement.
- ⁷ **850.1010** – MRID 42540301 was considered acceptable and satisfies the data requirement as per the Problem Formulation and the RED Eco RA. The Registration Review DCI also called in data for metabolites of PBO; the data submitted in response to the DCI are also cited.
- ⁸ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The data cited satisfy the data requirement as per the Problem Formulation and RED Eco RA.
- ⁹ **850.1300** – MRID 43311301 was considered acceptable and satisfies the data requirement as per the Problem Formulation and RED Eco RA. Additional data that support MRID 43311301 are also cited.
- ¹⁰ **850.1350** – Data submitted in response to the RED DCI are cited.
- ¹¹ **850.1400** – MRID 43300301 considered acceptable and satisfies the data requirement as per the Problem Formulation and RED Eco RA. Additional data that support MRID 43300301 are also cited.
- ¹² **850.1400** – Data submitted in response to the Registration Review DCI are cited.
- ¹³ **850.1500** – Data submitted in response to the RED DCI are cited.
- ¹⁴ **850.1710, 850.1730, 850.1850** – The studies cited were considered acceptable and satisfy the data requirement as per the Problem Formulation and RED Eco RA.
- ¹⁵ **850.1735** – Data submitted in response to the RED DCI are cited.
- ¹⁶ **850.1740** – Data submitted in response to the RED DCI are cited.
- ¹⁷ **N/A** – Data submitted in response to the RED DCI are cited.
- ¹⁸ **850.3020** – MRID 41969009 was considered acceptable and partially satisfies the data requirement as per the Problem Formulation and RED Eco RA. MRID 49296201 was submitted in response to the Registration Review DCI to satisfy the data requirement with a typical end-use product.
- ¹⁹ **870.6100** – Data submitted in response to the Registration Review DCI are cited.
- ²⁰ **870.3200** – The data cited are acceptable and satisfy the data requirement as per the Feb. 21, 2006 Piperonyl Butoxide HED Revised Risk Assessment for Reregistration Eligibility Document (RED) PC Code No 067501; DP Barcode No. 326576 (RED HED RA).
- ²¹ **870.3465** – MRID 42477101 is acceptable and satisfies the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.
- ²² **870.6200** – EPA waived the submission of these data based on MRID Numbers 49111402 and 49362801 as per the April 23, 2015 EPA memo.
- ²³ **83-1(b)** – MRID Numbers 42926001 and 42926002 are acceptable and satisfy the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.
- ²⁴ **870.4100** – MRID Numbers 42920201 and 42839601 are acceptable and satisfy the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.
- ²⁵ **870.4200** – MRID Numbers 42920201, 42839601, 42903701 and 42978001 are acceptable and satisfy the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.
- ²⁶ **870.3700** – MRID Numbers 42380801 and 00157157 are acceptable and satisfy the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.
- ²⁷ **870.3800** – MRID Number 00161118 is acceptable and satisfies the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.
- ²⁸ **870.5100** – MRID Numbers 00143499 and 42004502 are acceptable and satisfy the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.

²⁹ **870.5300, 830.5375** – MRID Numbers 00147693, 00143499 and 43013801 are acceptable and satisfy the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.

³⁰ **870.5385, 830.5395, 870.5450, 870.5550** – MRID 42004503 is acceptable and satisfies the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.

³¹ **870.7485** – MRID Numbers 41998401, 41998701, and 45582701 are acceptable and satisfy the data requirement as per the RED HED RA. Additional data submitted by the PBO Task Force is also cited.

³² **870.7800** – EPA waived the submission of these data based on MRID 49111401 as per the April 11, 2014 EPA memo (DP Barcode D412491).

³³ **870.2100** – These data were not required as per a Dec. 6, 2012 EPA memo (DP D407107).

³⁴ **201-1, 202-1** – The data requirement is reserved as per the RED Eco RA.

³⁵ **890.1100** – The studies cited were considered acceptable and satisfy the data requirement as per the May 28, 2015 DER on the Toxicity of Piperonyl Butoxide (PBO) to Amphibians, Metamorphosis Assay (DP Barcode D404227, DP D426891).

³⁶ **890.1150** – The study cited was considered acceptable and satisfies the data requirement as per the June 25, 2015 DER for Androgen Receptor Binding (Rat Prostate Cytosol); OCSPP 890.1150 (DP Barcode D398558).

³⁷ **890.1200** – The study cited was considered acceptable and satisfies the data requirement as per the June 15, 2015 DER for Aromatase (Human Recombinant) OCSPP 890.1200 (DP Barcode D398558).

³⁸ **890.1250** – The study cited was considered acceptable and satisfies the data requirement as per the June 15, 2015 DER for Estrogen Receptor Binding Assay Using Rat Uterine Cytosol (ER-RUC); OCSPP 890.1250 (DP Barcode D398558).

³⁹ **890.1300** – The study cited was considered acceptable and satisfies the data requirement as per the June 9, 2015 DER for Estrogen Receptor Transcriptional Activation (Human cell Line, HeLa-9903); OCSPP 890.1300 (DP Barcode D398558).

⁴⁰ **890.1350** – The study cited was considered acceptable and satisfies the data requirement as per the June 1, 2015 DER on the First Short-Term Reproduction Assay with Piperonyl Butoxide (DP Barcode D404227).

⁴¹ **890.1400** – The study cited was considered acceptable and satisfies the data requirement as per the June 19, 2015 DER for *in Vivo* Hershberger Assay (Rat); OCSPP 890.1400 (DP Barcode D398558).

⁴² **890.1450** – The study cited was considered acceptable and satisfies the data requirement as per the June 8, 2015 DER for Female Pubertal Assay; OCSPP 890.1450 (DP Barcode D398558).

⁴³ **890.1500** – The study cited was considered acceptable and satisfies the data requirement as per the June 8, 2015 DER for Male Pubertal Assay; OCSPP 890.1500 (DP Barcode D398558).

⁴⁴ **890.1550** – The study cited was considered acceptable and satisfies the data requirement as per the June 8, 2015 DER for Steroidogenesis Assay (H295R Cells); OCSPP 890.1550 (DP Barcode D398558).

⁴⁵ **890.1600** – The study cited was considered acceptable and satisfies the data requirement as per the May 27, 2015 DER for Uterotrophic Assay (Rat); OCSPP 890.1600 (DP Barcode D398558).

⁴⁶ **850.4100** – Data submitted in response to the RED DCI are cited.

⁴⁷ **850.4150** – Data submitted in response to the RED DCI are cited.

⁴⁸ **850.4400, 850.4550** – Data submitted in response to the RED and Registration Review DCI's are cited. In addition, as per the Clarification of Data Needs, EPA waived the submission of TEP data based on MRID 49111405.

⁴⁹ **835.2120** – The data cited satisfy the data requirement as per the RED Eco RA. In addition, MRID 45674207, a supplement to MRID 43595601, is also cited.

⁵⁰ **835.2240** – The data cited satisfy the data requirement as per the RED Eco RA. In addition, MRID 45674205, a supplement to MRID 43637201, is also cited.

⁵¹ **835.2410** – The data cited satisfy the data requirement as per the RED Eco RA.

⁵² **835.2370** – The data requirement is waived as per the RED Eco RA.

⁵³ **835.4100** – MRID 43806401 was listed in the Problem Formulation and the RED Eco RA as acceptable and satisfies the data requirement using one soil. Additional aerobic soil metabolism data was requested in the Registration Review DCI and MRID 49091702 and 49103002 were submitted in response to the DCI. Additional data submitted by the PBO Task Force is also being cited.

⁵⁴ **835.4200** – The data requirement is waived as per the RED Eco RA. However, data submitted by the PBO Task Force for this data requirement are cited.

⁵⁵ **835.4300** – MRID 43803401 was listed in the Problem Formulation and the RED Eco RA as upgradeable. Additional aerobic aquatic metabolism data was requested in the Registration Review DCI and MRID 49091701 and 49103001 were submitted in response to the DCI. Additional data submitted by the PBO Task Force is also being cited.

⁵⁶ **835.4400** – MRID 43836501 was listed in the Problem Formulation and RED Eco RA as supplemental but upgradeable and additional data were required. MRID 45674206 was submitted to upgrade this study. MRID 49751301 was submitted in response to the Registration Review DCI. Additional data submitted by the PBO Task Force are also being cited.

⁵⁷ **835.1230, 835.1240** – The data cited were listed in the Problem Formulation and/or RED Eco RA as satisfying the data requirement.

⁵⁸ **835.1410** – The data requirement is waived as per the RED Eco RA.

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- ⁵⁹ **835.6100** – The data requirement is waived as per the RED Eco RA.
- ⁶⁰ **835.6100** – The field dissipation data listed in the RED Eco RA are cited; no data were required in the RED or Registration Review DCI's.
- ⁶¹ **835.6200** – The aquatic field dissipation data listed in the RED Eco RA are cited; no data were required in the RED or Registration Review DCI's.
- ⁶² **835.6300** – The data requirement is reserved as per the RED Eco RA.
- ⁶³ **835.6400** – The data requirement is reserved as per the RED Eco RA.
- ⁶⁴ **835.7100** – The data requirement is reserved as per the RED Eco RA.
- ⁶⁵ **850.6100** – Data submitted in response to the Registration Review DCI are cited.
- ⁶⁶ **SS-1065** – The Piperonyl Butoxide Task Force II is currently developing data to satisfy this data requirement.
- ⁶⁷ **860.1300** – The data cited are acceptable and satisfy the data requirement as per the Nov. 23, 2004 Piperonyl Butoxide RED – Reregistration Eligibility Decision. Revised Product and Residue Chemistry Considerations. Case No. 2525 (DP Barcode D310030) (RED Residue RA).
- ⁶⁸ **860.1300** – The data cited are acceptable, but additional data are required to satisfy the data requirement as per the RED Residue RA. The additional data submitted in response to the RED DCI are also cited.
- ⁶⁹ **860.1850** – The data submitted in response to the RED DCI are cited.
- ⁷⁰ **860.1340** – The data cited are acceptable and satisfy the data requirement as per the RED Residue RA.
- ⁷¹ **860.1360** – The data cited are acceptable and the data requirement is reserved as per the RED Residue RA.
- ⁷² **860.1380** – The data submitted in response to the RED DCI are cited. Additional data are being developed by the Piperonyl Butoxide Task Force II.
- ⁷³ **860.1480** – The data cited are acceptable, but additional data are required to satisfy the data requirement as per the RED Residue RA. The additional data submitted in response to the RED DCI are also cited.
- ⁷⁴ **860.1400** – The data cited are acceptable and the data requirement is reserved as per the RED Residue RA.
- ⁷⁵ **860.1460** – The data cited are acceptable and satisfy the data requirement as per the RED Residue RA. Note: use of PBO on stored foods in multi-walled paper or cloth bags is removed from the label and these data are not submitted in response to the RED DCI. Additional data submitted by the PBO Task Force are also cited.
- ⁷⁶ **860.1900** – The data requirement is waived as per a March 5, 2014 EPA memo (DP Barcode D412494).